

WHAT IS CLAIMED IS:

1. A liquid container for containing liquid, comprising:

a reflection member provided in a liquid containing portion and having a plurality of roof mirror assemblies arranged in a predetermined direction, each of said roof mirror assemblies having at least two reflecting surfaces positioned with a predetermined angle therebetween;

10 wherein said reflection member is effective to divide incident light, which is scattering light, into a plurality of light beams by said plurality of roof mirror assemblies and to condense at a predetermined position the beams sequentially reflected by the at least two reflecting surfaces of the roof mirror assemblies, and wherein an amount of the liquid in said liquid container is detected on the basis of the light reflected by said reflection member.

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2. A liquid container according to Claim 1, wherein said reflection member is provided on an inner surface of said liquid containing portion.

25 3. A liquid container according to Claim 3, wherein said reflection member is provided on a surface relating to a height of said liquid container.

4. A method for detecting an amount of the ink in a liquid container, comprising:

a step of preparing a reflection member provided in a liquid containing portion and having a plurality of roof mirror assemblies arranged in a predetermined direction, each of said roof mirror assemblies having at least two reflecting surfaces positioned with a predetermined angle therebetween,

wherein said reflection member is effective to divide incident light, which is scattering light, into a plurality of light beams by said plurality of roof mirror assemblies and to condense at a predetermined position the beams sequentially reflected by the at least two reflecting surfaces of the roof mirror assemblies; and

detecting an amount of the liquid in said liquid container on the basis of the light reflected by said reflection member.

5. A liquid ejection recording apparatus for effecting recording by ejecting liquid from a liquid container as defined in any one of the proceeding claims, said apparatus comprising:

a carriage for carrying said liquid container; and

detecting means for detecting an amount of the liquid in said liquid container on the basis of

the light.

6. An apparatus according to Claim 5, wherein said detecting means includes a light emitting source and a
5 photoreceptor.

7. An apparatus according to Claims 6, wherein said light emitting source and said photoreceptor are integral with each other.

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